

**ABSTRACT**

The invention relates to a method for the correction of video signals which are produced by pixel-by-pixel reading of picture cells from an optoelectronic sensor via two or more channels which have different transmission characteristics. In this case, the video signal is supplied to a processing circuit and is converted to digital pixel values. Estimated values for pixel values of another transmission channel are calculated from the digital pixel values of one transmission channel, and the estimated values and pixel values of one transmission channel are used to derive correction values, which correct differences between the estimated values and the pixel values of the relevant transmission channel, if necessary.